2 Sheets—Sheet 1.

H. K. ANDREWS.

Band-Cutting Feeders for Thrashing-Machines.

No. 199,172. **Patented Jan. 15, 1878.**

FIG. 1.

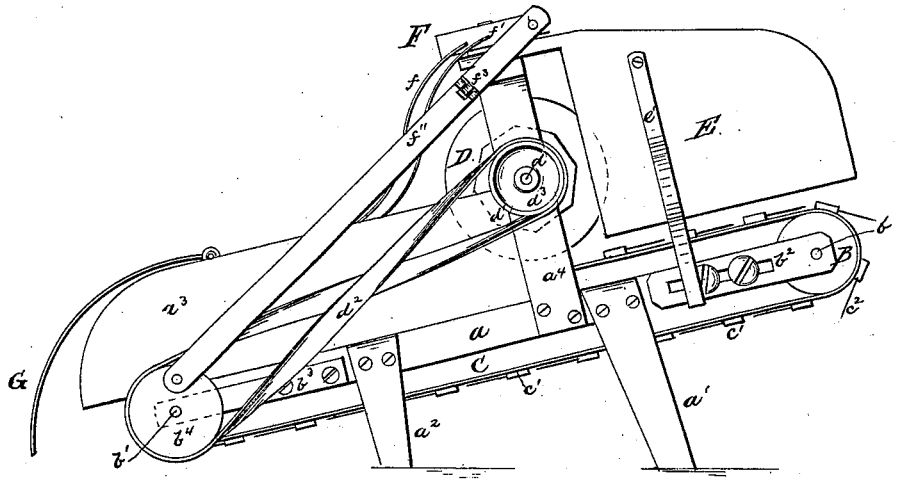
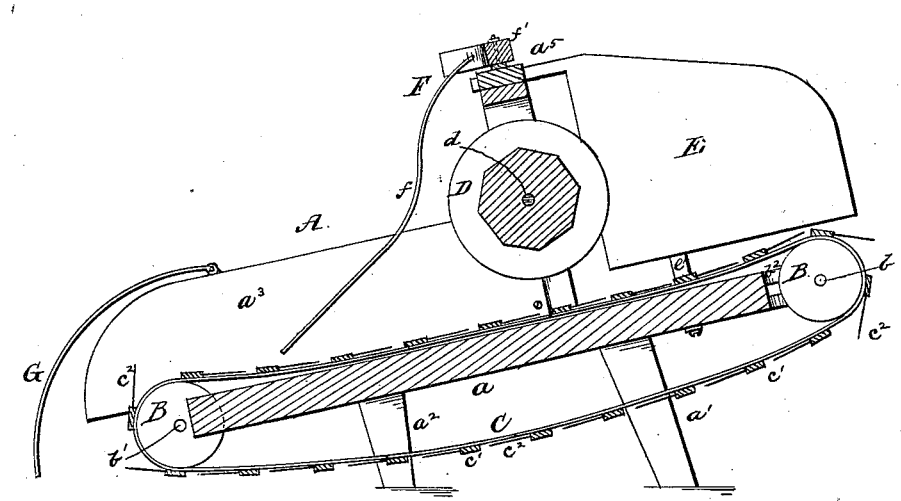


FIG. 2.



WITNESSES

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FIG. 3.

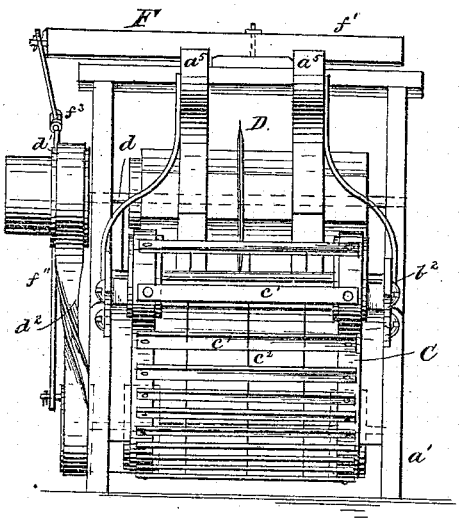
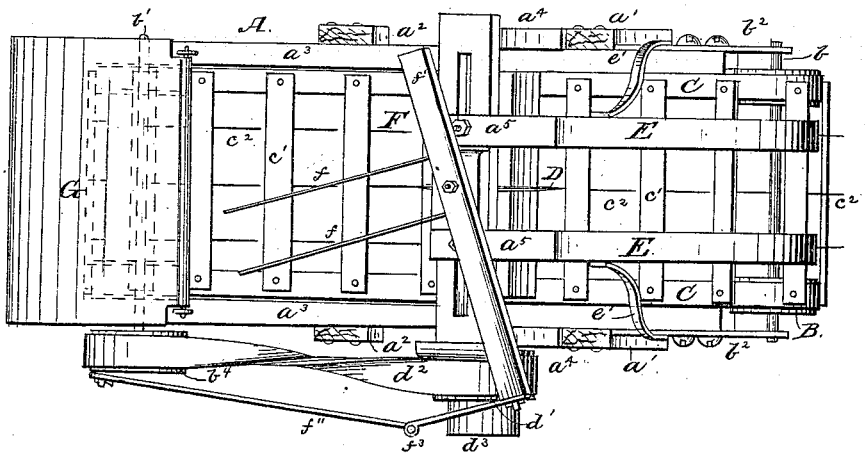


FIG. 4.



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UNITED STATES PATENT OFFICE.

HENRY K. ANDREWS, OF DECATUR, TEXAS.

IMPROVEMENT IN BAND-CUTTING FEEDERS FOR THRASHING-MACHINES.

Specification forming part of Letters Patent No. **199,172,** dated January 15, 1878; application filed August 22, 1877.

To all whom it may concern:

Be it known that I, HENRY K. ANDREWS, of Decatur, in the county of Wise and State of Texas, have invented certain new and useful Improvements in Band-Cutters and Feeders for Thrashing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side elevation. Fig. 2 is a vertical longitudinal section. Fig. 3 is a rear end view, and Fig. 4 is a plan, of my device.

A is the frame. It has a base-board, *a*, with legs a^1 and a^2, side boards a^3, and two uprights, a^4, joined by the cross-bar a^5, all constructed and arranged as shown, and adapted to be placed on the feed-board of a thrashing-machine, for the purpose hereinafter described.

B and B are rollers placed on the shafts *b* and b^1, journaled in the adjustable bearing-plate b^2 and fixed bearing-plate b^3. The shaft b^1 has on its extremity the pulley b^4, through which motion is communicated to the rollers B and endless carrier C.

C is an endless carrier, which passes around the rollers B. It is composed of the belts *c* and *c* and cross-bar c^1, from which project the teeth c^2, as shown. The teeth c^2, in the operation of the device, lie and move parallel with the surface of the base *a;* but, in passing over the roller B, they assume the vertical position shown at B in Fig. 2.

D is a revolving cutter, fixed centrally in the machine on a shaft, *d*, journaled in bearings in the uprights a^4. The shaft *d* is provided with the pulley d^1, over which and over the pulley b^4 is passed the belt d^2, and with the driving-pulley d^3, through which, by a suitable belt, motion is received from the thrasher or horse-power.

E are adjustable guide-boards, fastened to the cross-bar a^5 by set-screws through the slots *e*, and to the base-board *a* by the springs *e'*, as shown. The distance between the guide-boards E may be increased or diminished by means of the set-screws in the slots *e* of the cross-bar a^5, the flexibility of the springs *e'* being such as to admit of any degree of adjustment desired to adapt them to the different-sized sheaves to be thrashed.

F is a spreader, composed of the rods *f* and rocking bar f^1, pivoted to the cross-bar a^5, and connected by the pitman f^2 to the pulley b^4. The pitman f^2 is jointed at f^3, or provided with any other suitable construction which will prevent any binding with the operation of the rocking bar f^1 in the operation of the machine.

G is a curved cap, hinged or journaled in suitable bearings on the side boards a^3, and fits snugly down over the end of the device, and against the front board or apron of the cap of the cylinder in the thrasher. It is so arranged as to provide a passage between it and the carrier C, through which the straw is drawn by the teeth c^2. It gives downward and immediate direction to the straw into the cylinder.

In the operation of my machine, motion is imparted to it by the pulley d^3 and the belt d^2, passing around the pulleys d^1 and b^4, and to the carrier C by the rollers B. The sheaves are placed between the adjustable guide-boards E, and by the movement of the carrier C they are drawn under the cutter D, which severs the bands, after which they are carried forward under the spreading-rods *f*, which scatter or spread the straw over the entire surface of the carriers C. The straw is then caught by the elevated teeth c^2 and drawn forward, and is directed downward by the curved cap G into the thrasher.

Having described my invention, what I desire to claim, and secure by Letters Patent, is—

The combination of the frame A, constructed with the uprights a^4 and cross-bar a^5, having slots *e*, carrier C, cutter D, and adjustable guide-boards E, secured to the frame A by spring-supports *e'* and set-screws in the slots *e*, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

HENRY K. ANDREWS.

Witnesses:

SAMUEL H. HODGES,

ANDREW B. FOSTER.